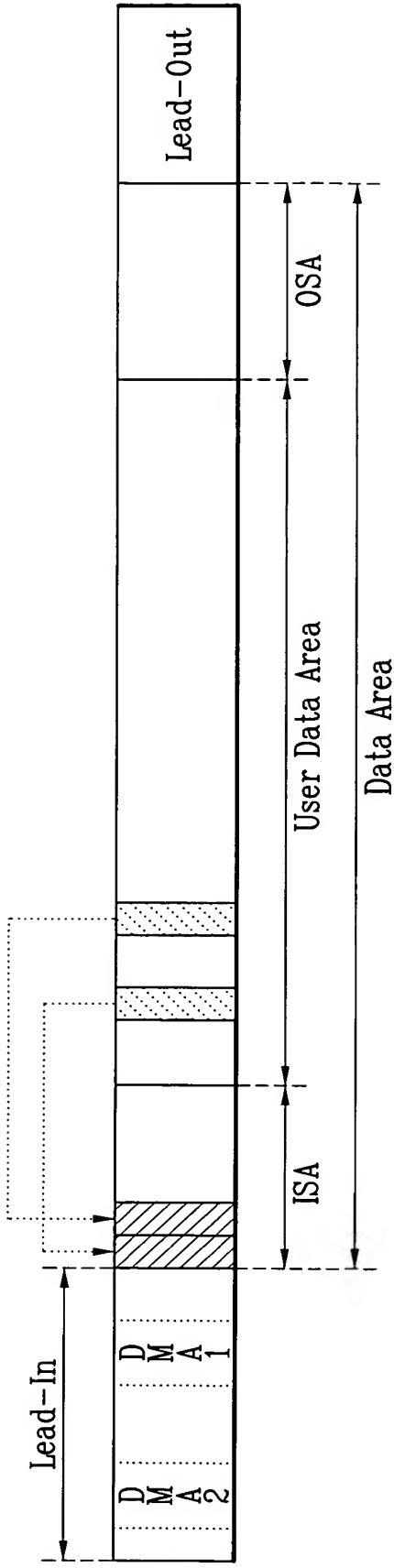


Related Art



- ISA : Inner Spare Area
- OSA : Outer Spare Area
- DMA : Defect management Area

FIG. 2

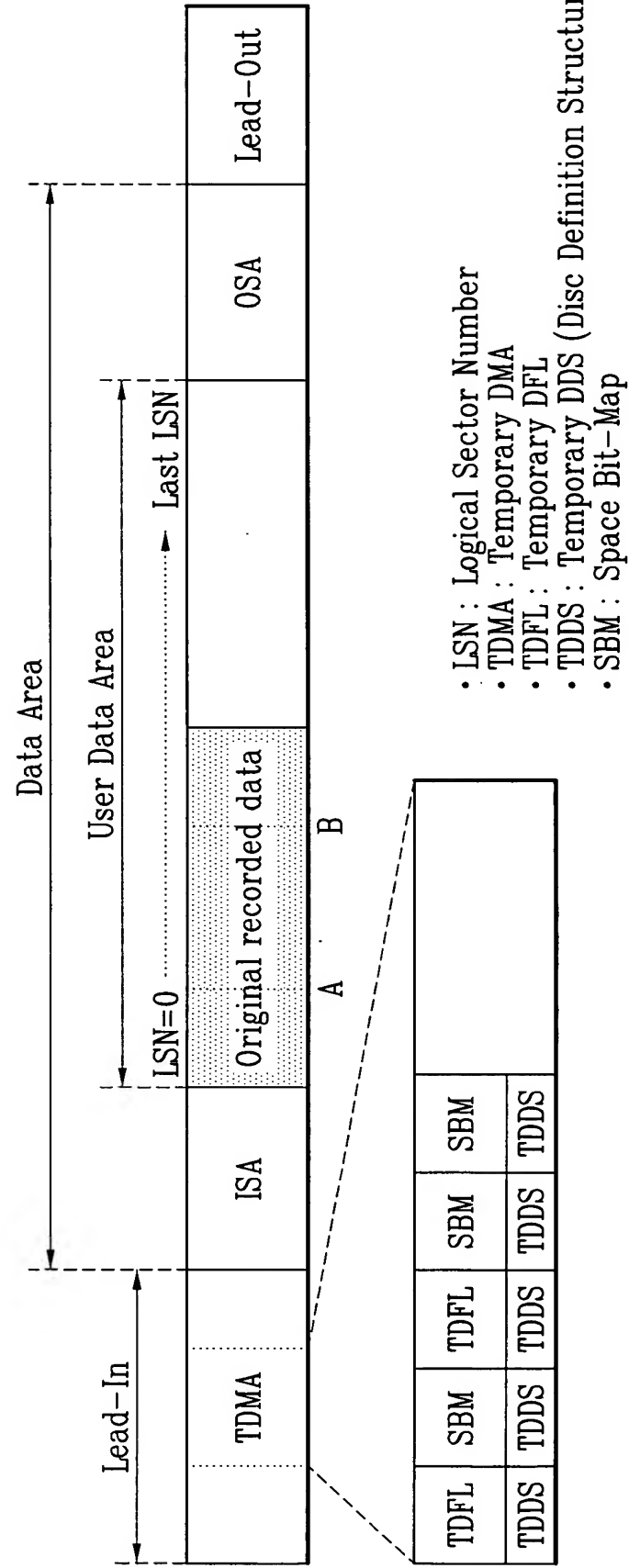


FIG. 3A

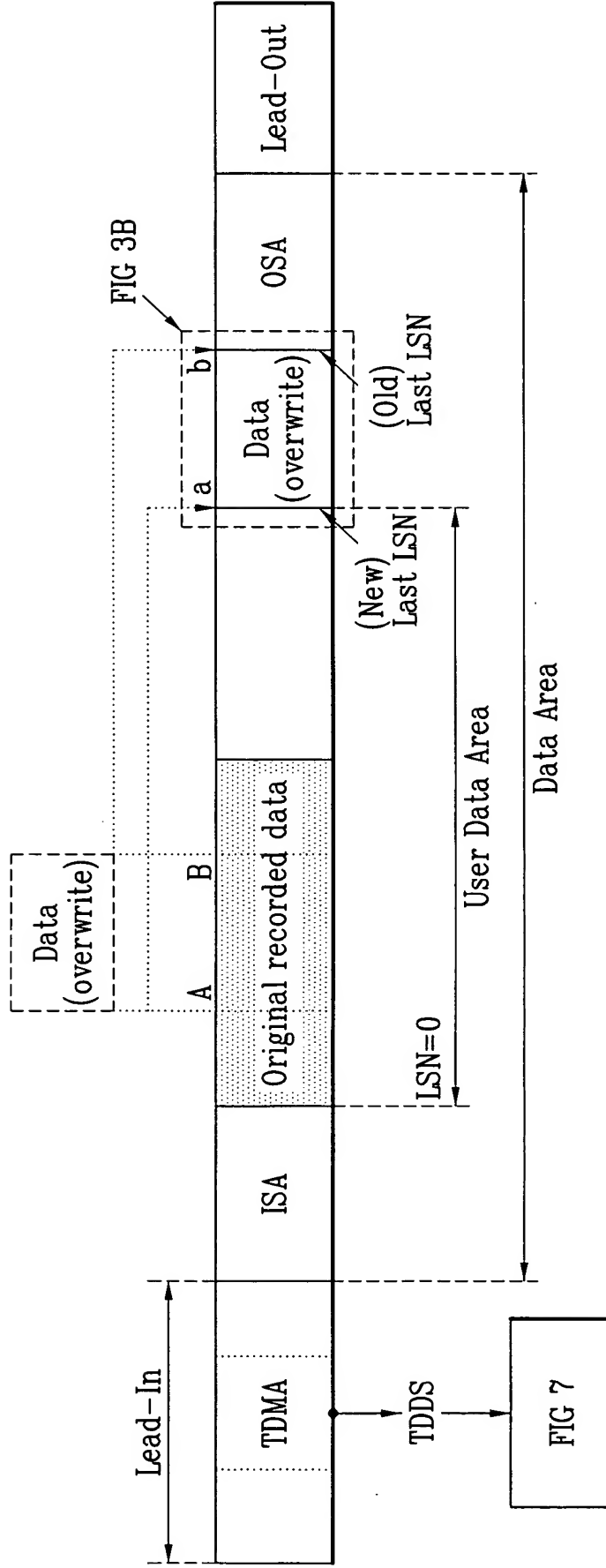


FIG. 3B

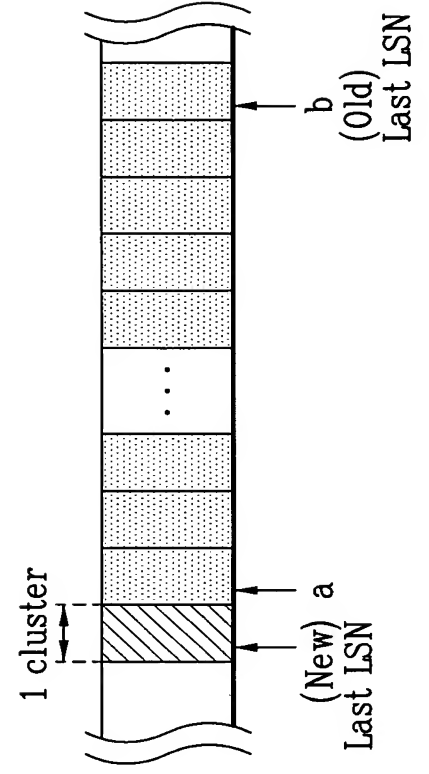


FIG. 4

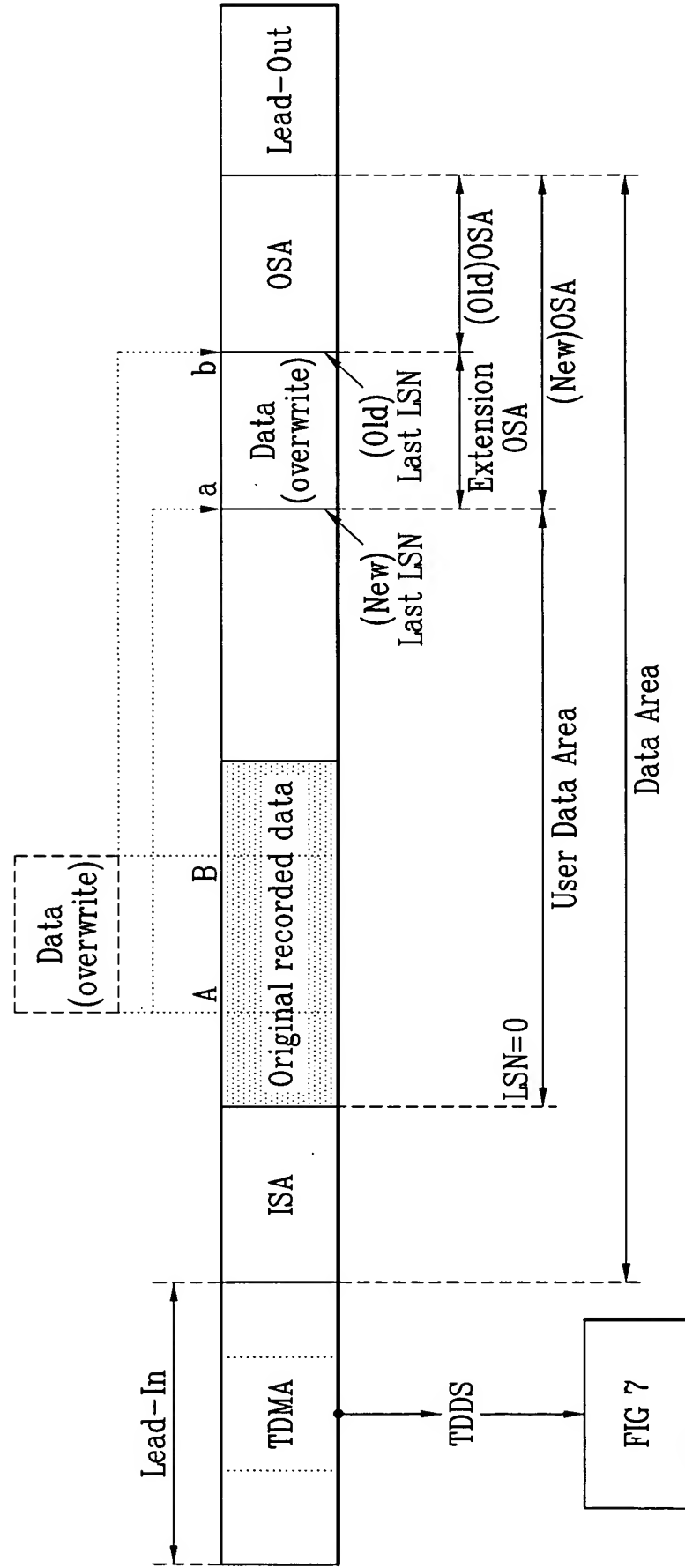


FIG. 5

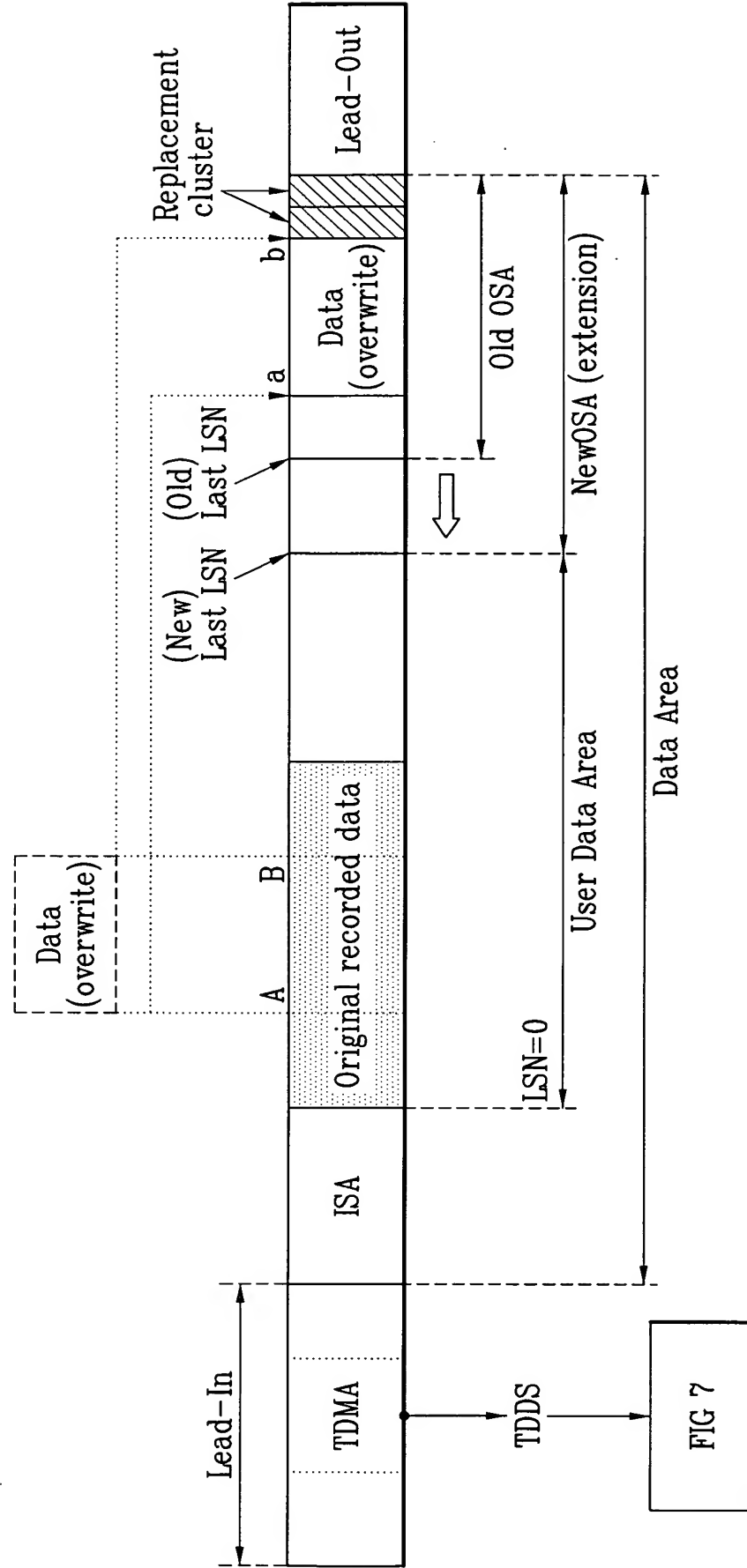


FIG. 6

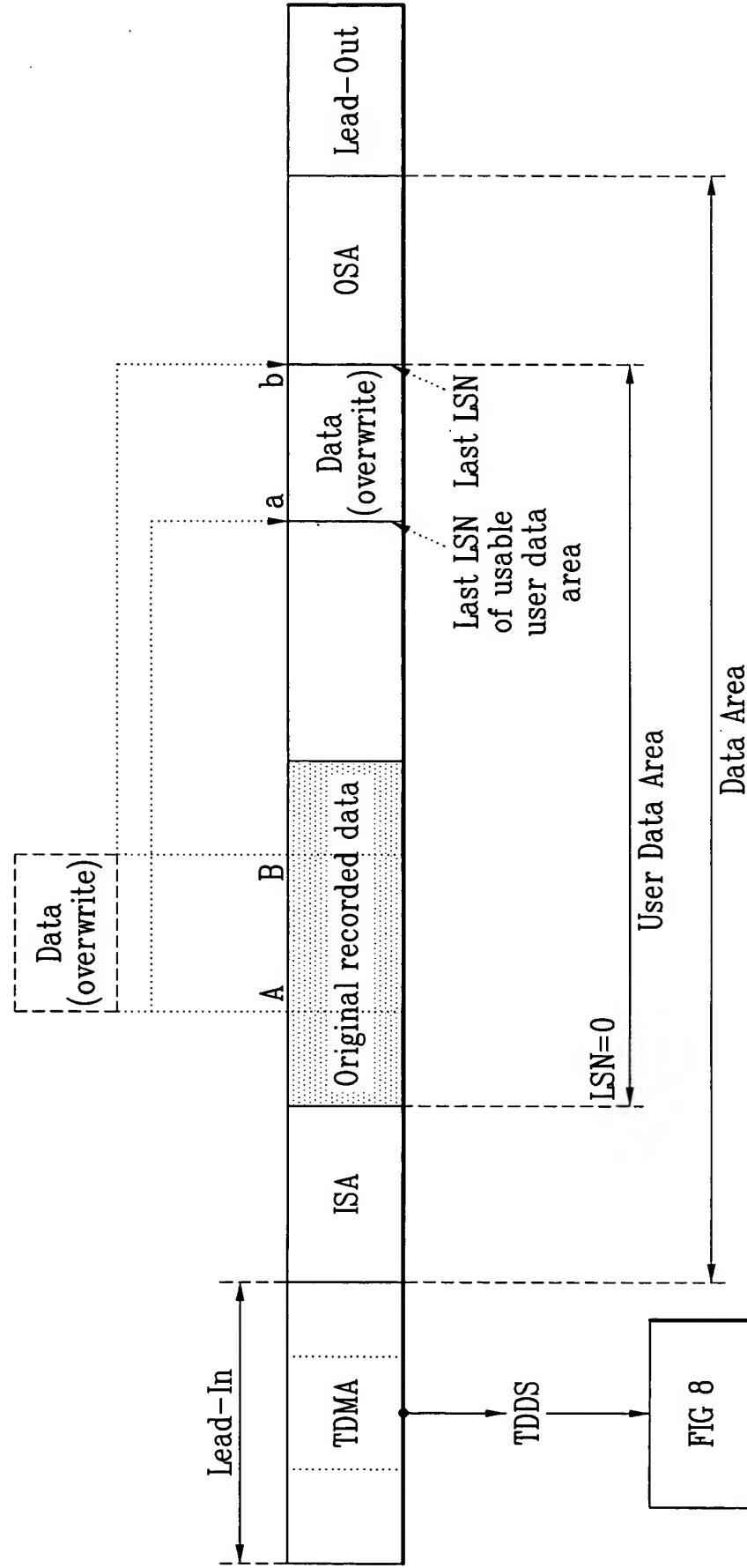


FIG. 7

TDDS

TDDS identifier = "TDS"
TDDS update counter
⋮
Location LSN=0 of User Data Area
Location (new) Last LSN of User Data Area
⋮

FIG. 8

TDDS

TDDS identifier = "TDS"
TDDS update counter
⋮
Location LSN=0 of User Data Area
Location Last LSN of User Data Area
Location Last LSN of usable User Data Area
⋮

FIG. 9

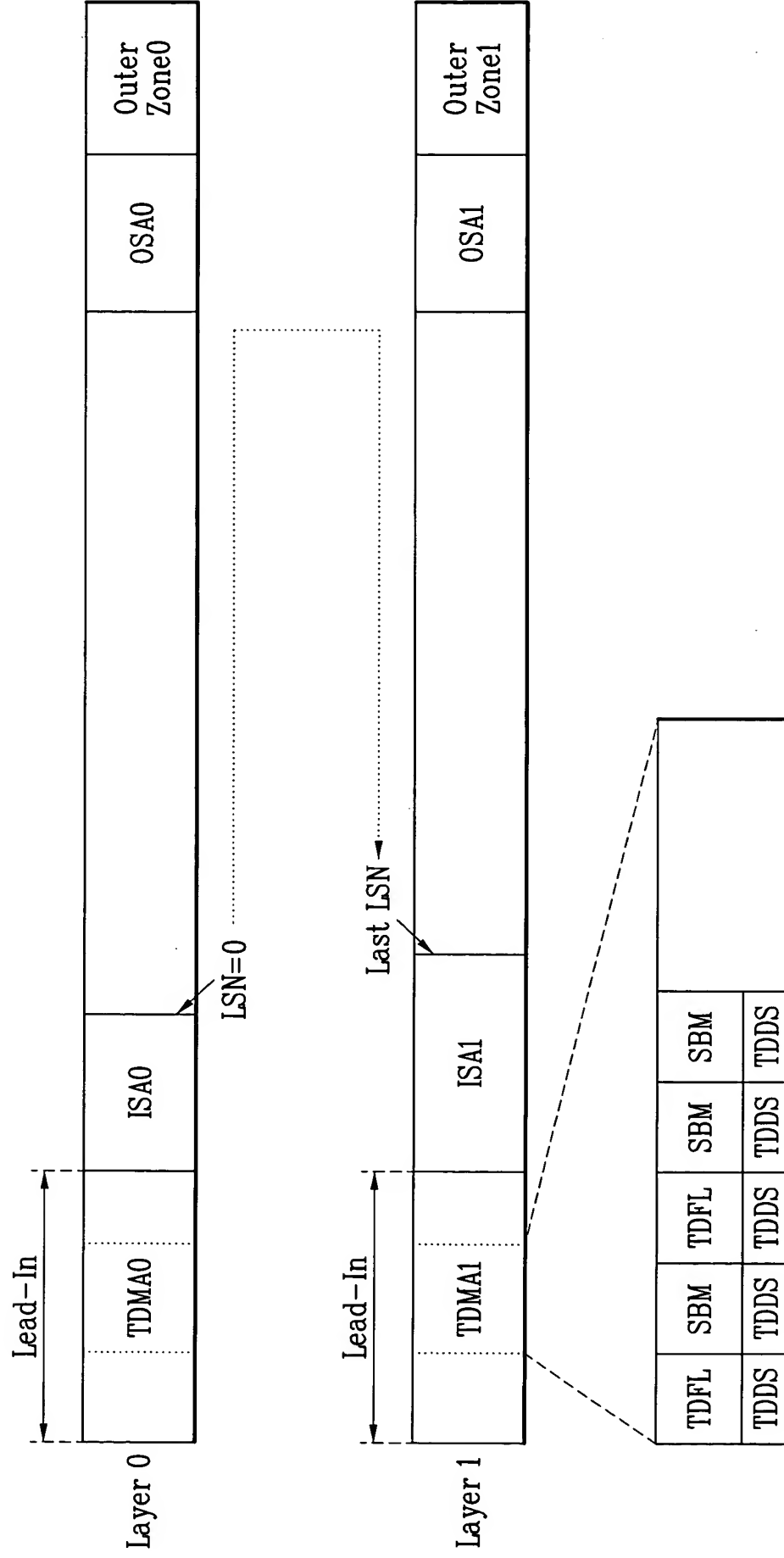


FIG. 10

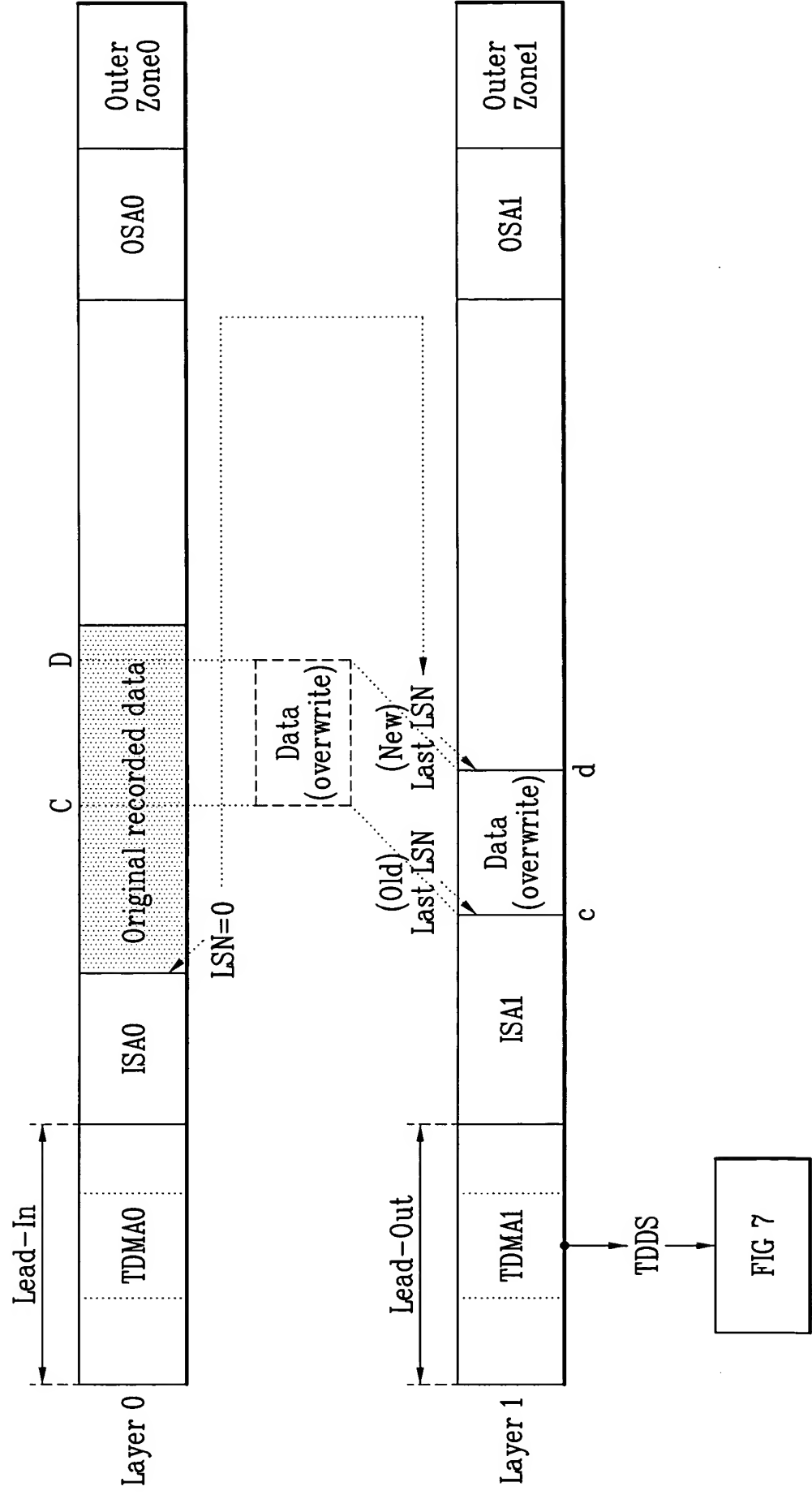


FIG. 11

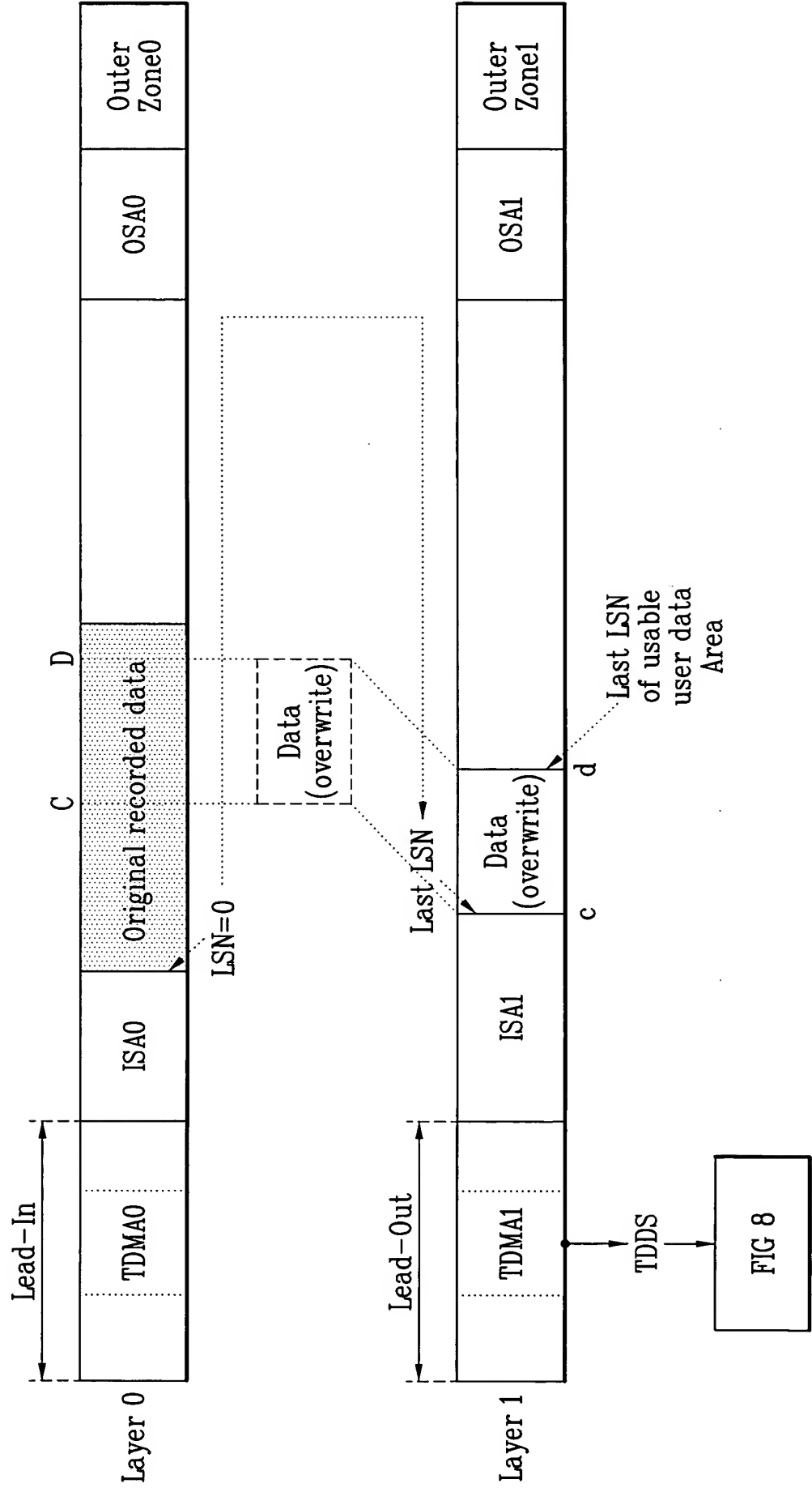


FIG. 12

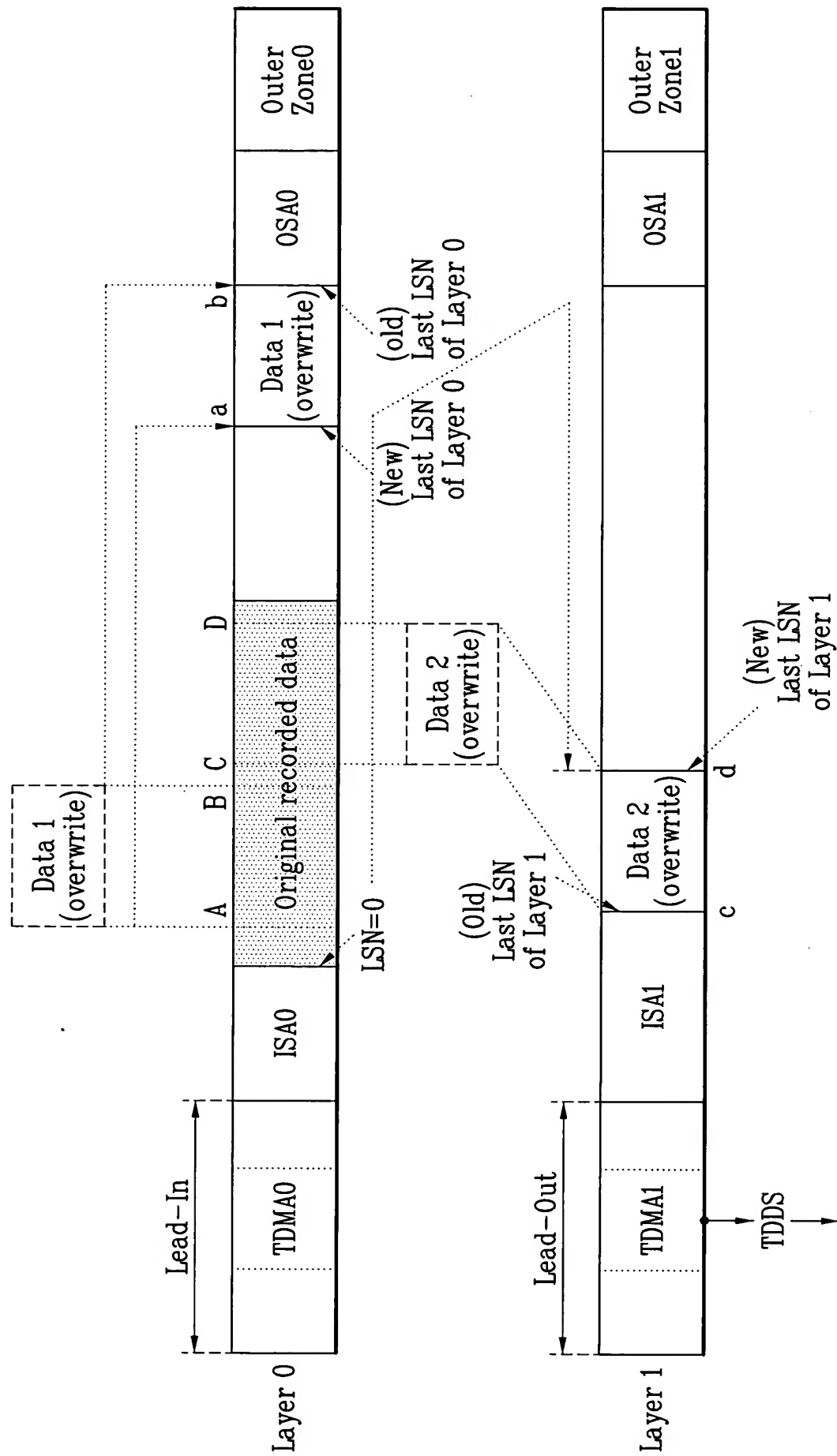


FIG. 13

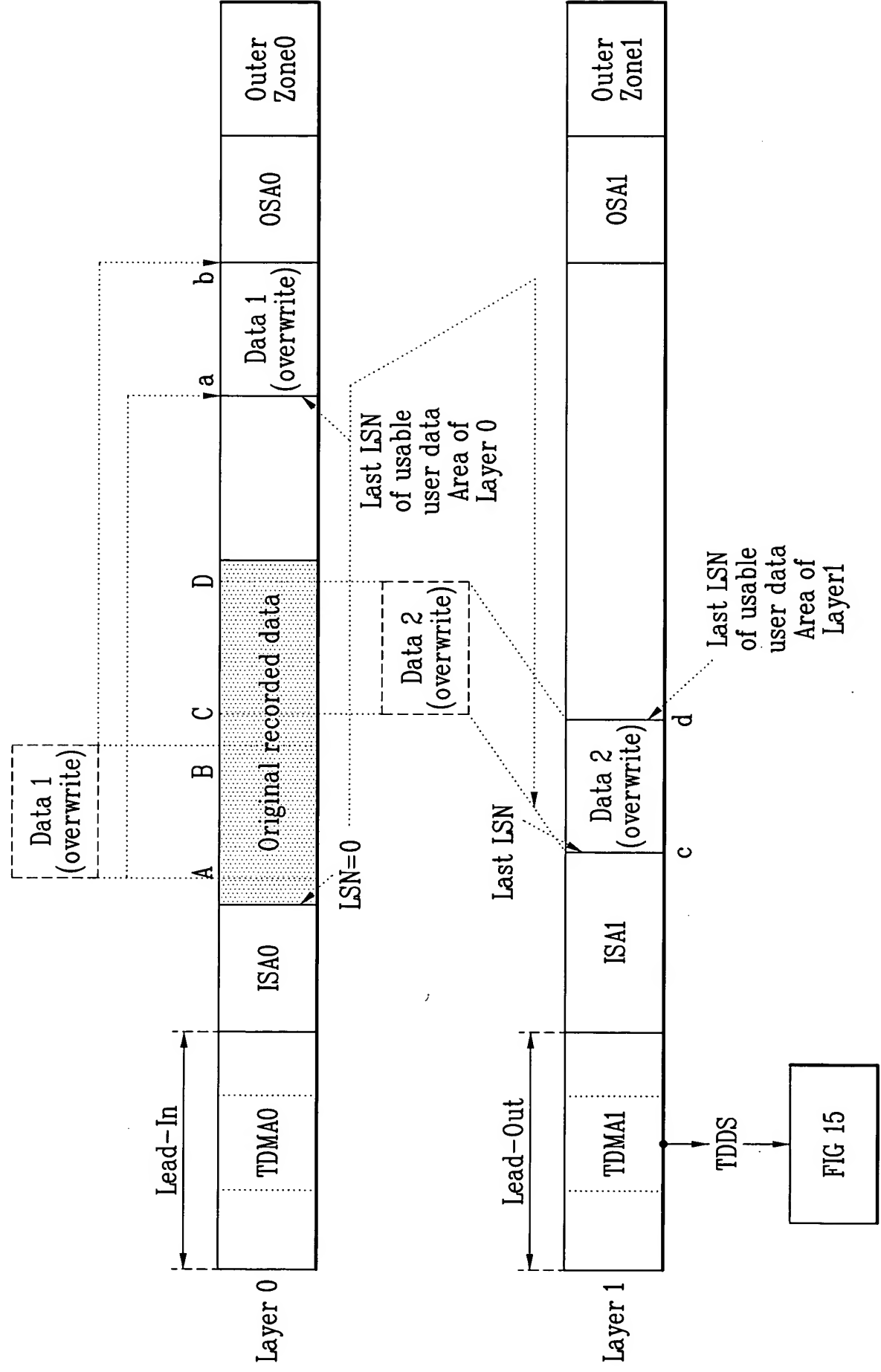


FIG. 14

TDDS

TDDS identifier = "TDS"
TDDS update counter
⋮
Location LSN=0 of User Data Area
Location (new) Last LSN of User Data Area of Layer 0
Location (new) Last LSN of User Data Area of Layer 1
⋮

FIG. 15

TDDS

TDDS identifier = "TDS"
TDDS update counter
⋮
Location LSN=0 of User Data Area
Location Last LSN of User Data Area of Layer 0
Location Last LSN of User Data Area of Layer 1
Location Last LSN of usable User Data Area of Layer 0
Location Last LSN of usable User Data Area of Layer 1
⋮

FIG. 16

